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L5 and amphi\$7	3

**Database:**

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JPO Abstracts Database  
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IBM Technical Disclosure Bulletins

**Search:**

L8

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<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L8</u>	L5 and amphi\$7	3	<u>L8</u>
<u>L7</u>	L5 and amphilphi\$5	0	<u>L7</u>
<u>L6</u>	L5 and amphilphilic	0	<u>L6</u>
<u>L5</u>	L4 and arylene	348	<u>L5</u>
<u>L4</u>	L3 and carbon	9014	<u>L4</u>
<u>L3</u>	L2 and pigment	14923	<u>L3</u>
<u>L2</u>	106/\$ or 101/\$	136749	<u>L2</u>
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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20020020318 A1

L8: Entry 1 of 3

File: PGPB

Feb 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020020318

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020020318 A1

TITLE: Printing plates comprising modified pigment products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 2. Document ID: US 5565145 A

L8: Entry 2 of 3

File: USPT

Oct 15, 1996

US-PAT-NO: 5565145

DOCUMENT-IDENTIFIER: US 5565145 A

TITLE: Compositions comprising ethoxylated/propoxylated polyalkyleneamine polymers as soil dispersing agents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 3. Document ID: US 5171772 A

L8: Entry 3 of 3

File: USPT

Dec 15, 1992

US-PAT-NO: 5171772

DOCUMENT-IDENTIFIER: US 5171772 A

TITLE: Micro composite systems and processes for making same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: WO 200125340 A1, AU 200077408 A  
L1: Entry 1 of 1                      File: DWPI                      Apr 12, 2001

DERWENT-ACC-NO: 2001-464810  
DERWENT-WEEK: 200215  
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TITLE: Modified pigment product useful in inks and coatings comprises a pigment having steric and organic ionic groups attached to the same pigment along with amphiphilic counterion

Full	Title				CLS.1		REF.1		SEQ.1		ATT.1						
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L8: Entry 3 of 3

File: USPT

Dec 15, 1992

DOCUMENT-IDENTIFIER: US 5171772 A

TITLE: Micro composite systems and processes for making same

Abstract Paragraph Left (1):

A coating of hydrophobic polymer is prepared by contacting a substrate with an aqueous media containing amphiphilic polymer and polymerizing polymerizable component to provide the hydrophobic polymer coating. The processes can be used to make stable dispersions of particles, such as pigments, for paint compositions.

Brief Summary Paragraph Right (2):

A great amount of effort has been expended heretofore in attempting to encapsulate or coat materials with polymer. One field of endeavor has been to encapsulate finely divided materials such as metals, metal oxides, pigments, fillers, and inorganic and organic particulates in general having a mean particle diameter of generally 2 microns or less. Many assertions have been made heretofore that the individual pigment particles have been coated with polymers, such as thermoplastic addition polymers, in order to prevent the particles from agglomerating and ultimately settling out of dispersions containing them. Additionally, attempts were made to encapsulate pigment particles for the purpose of improving paint properties including stability, gloss, hiding power, etc. The coated or alleged encapsulated particles, in many instances, were disclosed as useful in a wide variety of applications such as in the pigmented paint field as mentioned above or as electroconductive additives to plastics and other materials, toners for use in electrophotographic uses as well as many other applications.

Brief Summary Paragraph Right (3):

Newman in U.S. Pat. No. 3,133,893 discloses pigment particles coated with a polymer which is polymerized in situ by stabilizing pigment particles of less than 1.5 microns, mostly between 0.01 and 0.5 microns, in an aqueous medium in which an emulsion polymerization is carried out to form the polymer coating. The dispersion is formed with a suitable dispersant which may be cationic, anionic or nonionic. The patentee states at column 3, line 45: "In general, the type of dispersant is immaterial." Newman discloses stabilization of the pigment against agglomeration by means of the polymer coating on the individual pigment particles.

Brief Summary Paragraph Right (4):

Osmond, et al., in U.S. Pat. No. 3,544,500 disclose a complex process for encapsulating solid particles, e.g., pigments. The process involves first adsorbing a polymer on the surface of the particles and providing a stabilizer having an anchor group which becomes associated with the adsorbed polymer on the surface and a pendant hydrophilic component solvated by the aqueous phase and so provides a stabilizing sheath around the particles. The pretreated particles can then be subjected to aqueous emulsion polymerization of a monomer in an aqueous phase to effect the encapsulation. The polymer to be adsorbed on the surface is soluble in an aqueous medium containing the particles and a modification is effected to make the polymer insoluble. The patentees disclose at column 3, lines 67 et seq., that the polymer to be adsorbed should contain strong polar groups to promote adsorption on the surface of the particles. At column 2, lines 1, et seq., the patentees state:

Brief Summary Paragraph Right (7):

Schofield in U.S. Pat. No. 4,349,389 describes dispersible inorganic pigment